## SHIFT

## CONFIDENTIAL

27 October 1954

MEMORANDUM	FOR: THE RECORD		
SUBJECT:	Visit to	P-151	25X1
meeting wa		On October 26, 1954 a	25X1 25A1
2. 1	Attendance: Present were:		25X1
re-evalua	te progress with the potent	he meeting was to determine infrared counter and to ialities as an APD contractor.	25X1 25X1
	a. reviewed the	progress with the infrared nvolves the following:	25 <b>X</b> 1
	A germ of wheat tungst collimating lens and an inconsists of a focusing lentransistorized amplifier, that a modified watch be to of the watch would provide clock face would be calibrate amplifier would power arrangement which would reach count. As most watch	cen lamp as a source with a afrared filter. The receiver design is, a lead sulfide detector, a and a counter. proposed ised as a counter. The main spring the motive power while the rated in counts. The output of a very low power solenoid elease the escapement once for hes count time in increments of one of 5 x 60 x 60 x 12 = 216,000 count ordinary watch with virtually 100%	25X1
abo sir rou DOCUMENT NO. to NO CHANGE IN CLASS. tem	posed counting mechanism wove. The receiver consists agle tube amplifier operations of the	es in operation at other than rotal	
DECLASSIFIED CLASS. CHANGED TO: TS S NEXT REVIEW DATE: AUTH: HR 70-2 DATE: REVIEWER:	O2010 CONFII	DENTIAL .	25X1

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c. then headed a tour through the expanded facilities at . These include rebuilt rooms to provide adequate bench space, a model shop, and a spectrometer presently being used to determine spectral response for cadmium sulfide cells.	25X <sup>2</sup>		
discussed several interesting effects observed with cadmium sulfide cells. These included a capacitance change by a factor of more than one million between dark and light states of the cell, and the infrared quenching effect. In this phenomenon, the effect of visible radiation on the cell is quenched by irradiating the cell with infrared.	25X′		
5. Conclusions:	25X′		
a. is continuing seriously with their cadmium sulfide work. Their work in this field may best be			
described as a high type of engineering development. Some of the			
work borders on basic research in the field although most of the theoretical work has been farmed out to			
performance with the infrared			
counter has been satisfactory. Although it is believed that			
they could successfully complete the project, they are not particularly suited for the project.			
6. Recommendations:	25 <b>X</b> 1		
a. It is recommended that work at be halted			
pending the submission of report and that subsequent	25 <b>X</b> ′		
decisions be made regarding future work with	25 <b>X</b> 1		
	25 <b>X</b> 1		
TSS/APD	25 <b>X</b> 1		

Distribution:

Orig. - P-151

1 - KK

1 - AST

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